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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,184		11/26/2003	Stephen H. Tang	INTEL-0044 6574	
34610	7590	05/16/2005		EXAMINER	
FLESHNE	R & KIM	I, LLP		HOANG	, HUAN
P.O. BOX 2	21200	•			
CHANTILL	Y, VA 2	20153	ART UNIT PAPER NUMBER		
	•			2827	<u> </u>

DATE MAILED: 05/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			fia				
	Application No.	Applicant(s)					
	10/721,184	TANG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Huan Hoang	2827					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet v	vith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ly within the statutory minimum of th will apply and will expire SIX (6) MC e, cause the application to become	n reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).	ion.				
Status							
1) Responsive to communication(s) filed on	<u>_</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.	•					
3) Since this application is in condition for allowa	•	• •	is				
closed in accordance with the practice under I	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-30 is/are pending in the application	1.						
4a) Of the above claim(s) is/are withdra	wn from consideration.						
5)⊠ Claim(s) <u>27 and 28</u> is/are allowed.							
6)⊠ Claim(s) <u>1-10,29 and 30</u> is/are rejected.							
7) Claim(s) <u>11-26</u> is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers	•	·					
9)☐ The specification is objected to by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	cepted or b) objected to	by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abey	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct	•	- · · · · · · · · · · · · · · · · · · ·	(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attach	ed Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea	ts have been received. ts have been received in prity documents have bee nu (PCT Rule 17.2(a)).	Application No n received in this National Stage					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	, .						
1) Notice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)		y Summary (PTO-413) p(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>112603</u> .		Informal Patent Application (PTO-152)					

Application/Control Number: 10/721,184 Page 2

Art Unit: 2827

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Fazan et al..

Fazan et al. discloses an apparatus comprising a transistor having al the elements as recited in claims 1-6 as follows:

a gate of the transistor is configured to receive a first control signal (Word Line 28a, Fig. 7A);

a first channel interface of the transistor is configured to receive a data signal (bit line 32a, Fig. 7A);

a second channel interface of the transistor is configured to receive a second control signal (paragraph [0059], lines 6-8);

wherein the memory device is a dynamic random access memory device (paragraph [0002]);

Application/Control Number: 10/721,184 Page 3

Art Unit: 2827

the memory device is a dynamic random access memory device (paragraph [0039]);

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fazan et al.

Fazan et al. discloses all the elements of claims 7-9 except for the interchange of drain and source of the transistor. However, the drain and source of the transistor are interchangeable. It would have been obvious to one having ordinary skill in the art to modify Fazan et al. by interchanging the drain and the source of the transistor since the drain and source are interchangeable in the art.

5. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fazan et al. in view of Ohsawa.

The only difference between claim 10 and Fanza et al. is that the purge line is coupled to the second channel interface of the transistor. However, Ohsawa discloses the purge line is one of the lines for to transmit a control signal in the memory transistor (paragraph [0016]). It would have been obvious to one having ordinary skill in the art to use a purge line to transmit a control signal in a memory cell.

Art Unit: 2827

6. Claims 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fazan et al. in view of Gomes et al.

Claims 29 and 30 differ from Fazan et al. in reciting an off-die component in communication with the processor. However, Gomes et al. discloses the use of an off-chip such as a cache memory for communicating with the processor (Fig. 6 and paragraph [0038]). It would have been obvious to one having ordinary skill in the art to modify Fazan et al. by using an off-chip cache memory to communication with the processor.

Allowable Subject Matter

- 7. Claims 27 and 28 are allowed.
- 8. Claims 11-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not teach or suggest the method of writing data to the transistor be resetting a floating body of the transistor and then writing data to the floating body of the transistor.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (571) 272-1779. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

Art Unit: 2827

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai Ho can be reached on (571) 272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huan Hoang Primary Examiner Art Unit 2827

HH 5/12/05.